

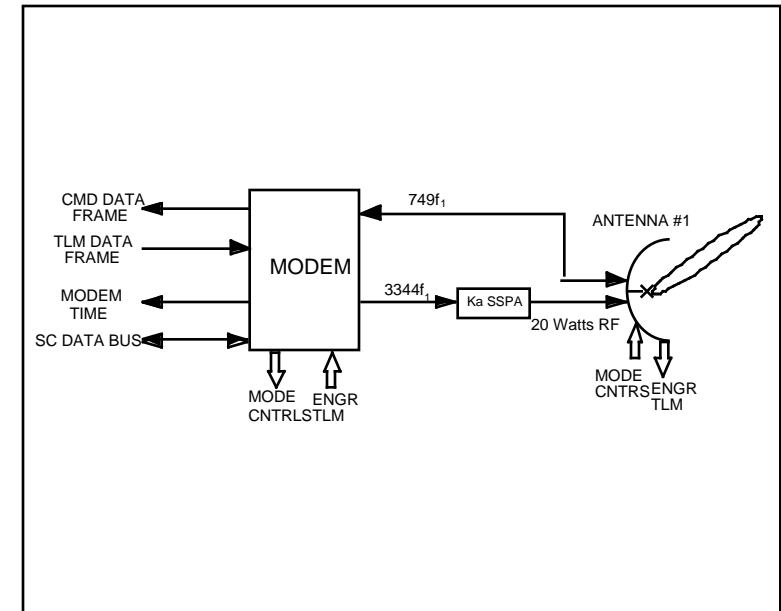
## Spacecraft Radio Systems Development

### • Overall Objective

- Achieve significant reduction in spacecraft radio hardware cost, mass and volume, and DC power while providing greater flexibility, increased performance and assured compatibility with the DSN.

### • Goals and Products

- X/Ka Spacecraft Transponding Modem (STM) to meet multi-mission needs with reduced cost, mass, and power consumption
- 3 meter adaptive inflatable Ka-Band antenna
- High-efficiency 20 Watt Ka-Band power amplifier



*Digital X / Ka-Band Radio System*

